INTERACTIVE SESSION I: GENERAL PRESENTATION OF THE SOTERIA PLATFORM

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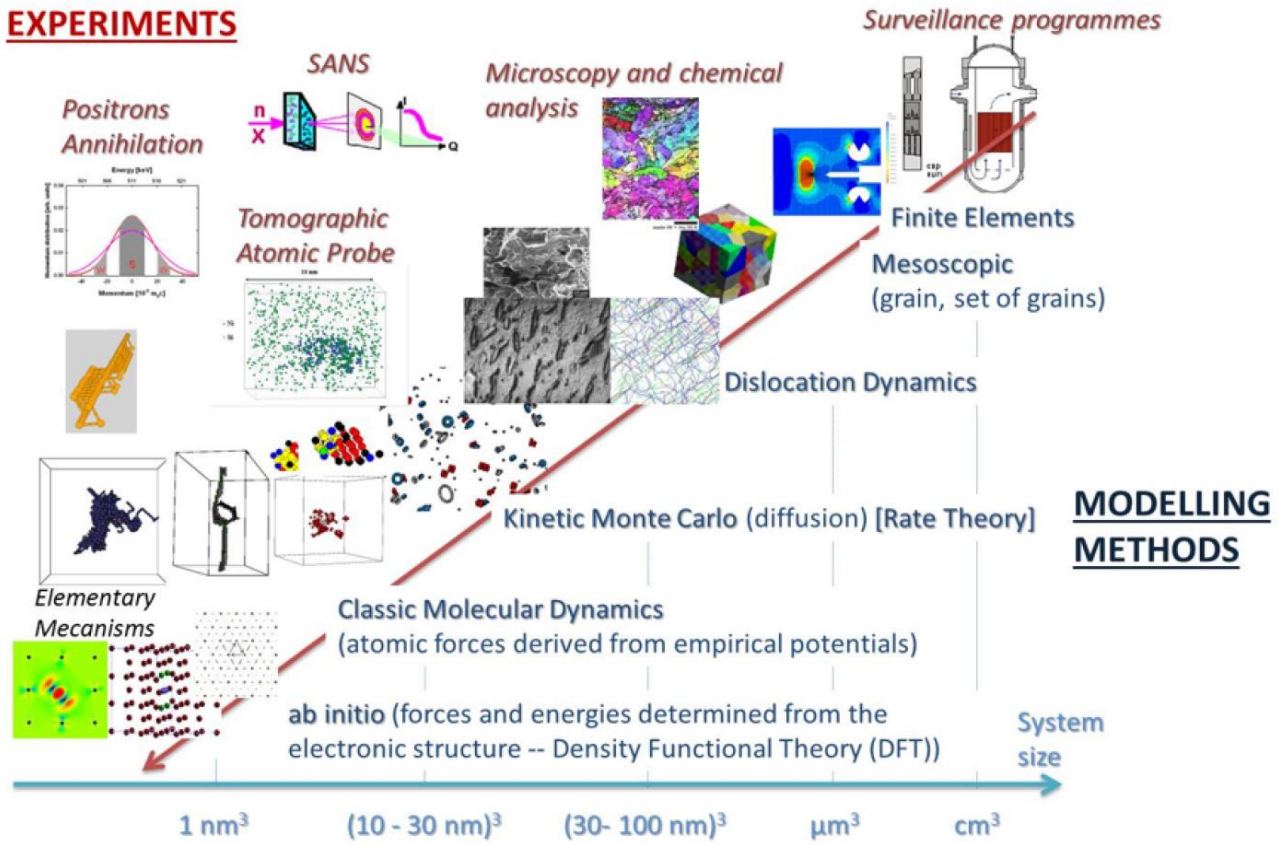
General philosophy of the platform

SOTERIA platform follows a multi-scale modelling approach with the aim to model the effect of irradiation on RPV and Internal material starting from nanofeature models up to mechanical models

PERFECT

PERFORM 60

SOTERIA



How to launch and use the platform

- For **beginners**: use of a clickable pdf file (Please use the pdf viewer *xpdf* to open the file) SOTERIA_Beamer.pdf. Several study cases (Perfect study) are presented and can be launched automatically by clicking

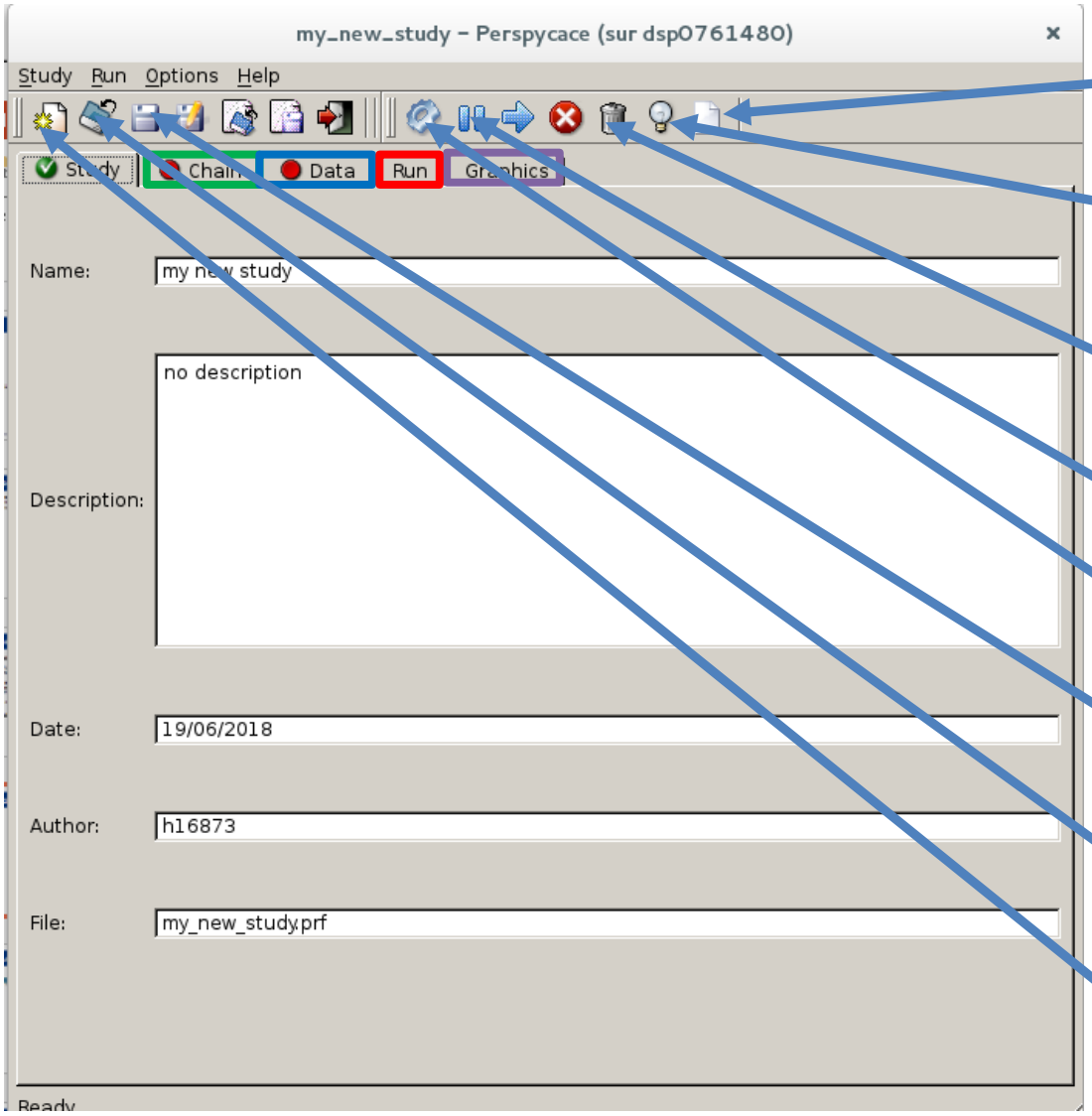
  Command : source env_perfect.sh

  To launch the platform, go to slide 98 and click SOTERIA logo

- For **basic users**: launch the plateforme directly through the commands « source env_perfect.sh » + « python Perspycace/pyqt/perspycace_gui.py »

- For **experienced users**: create your own study and possibility to generate python scripts from the SOTERIA platform to be embedded in an in-house code. Click on the Study>Export to> menu to generate a *py file of the study.

Graphical interface



LateX report of the study

Access to basic output of the modelling

Clean the study

Pause the study

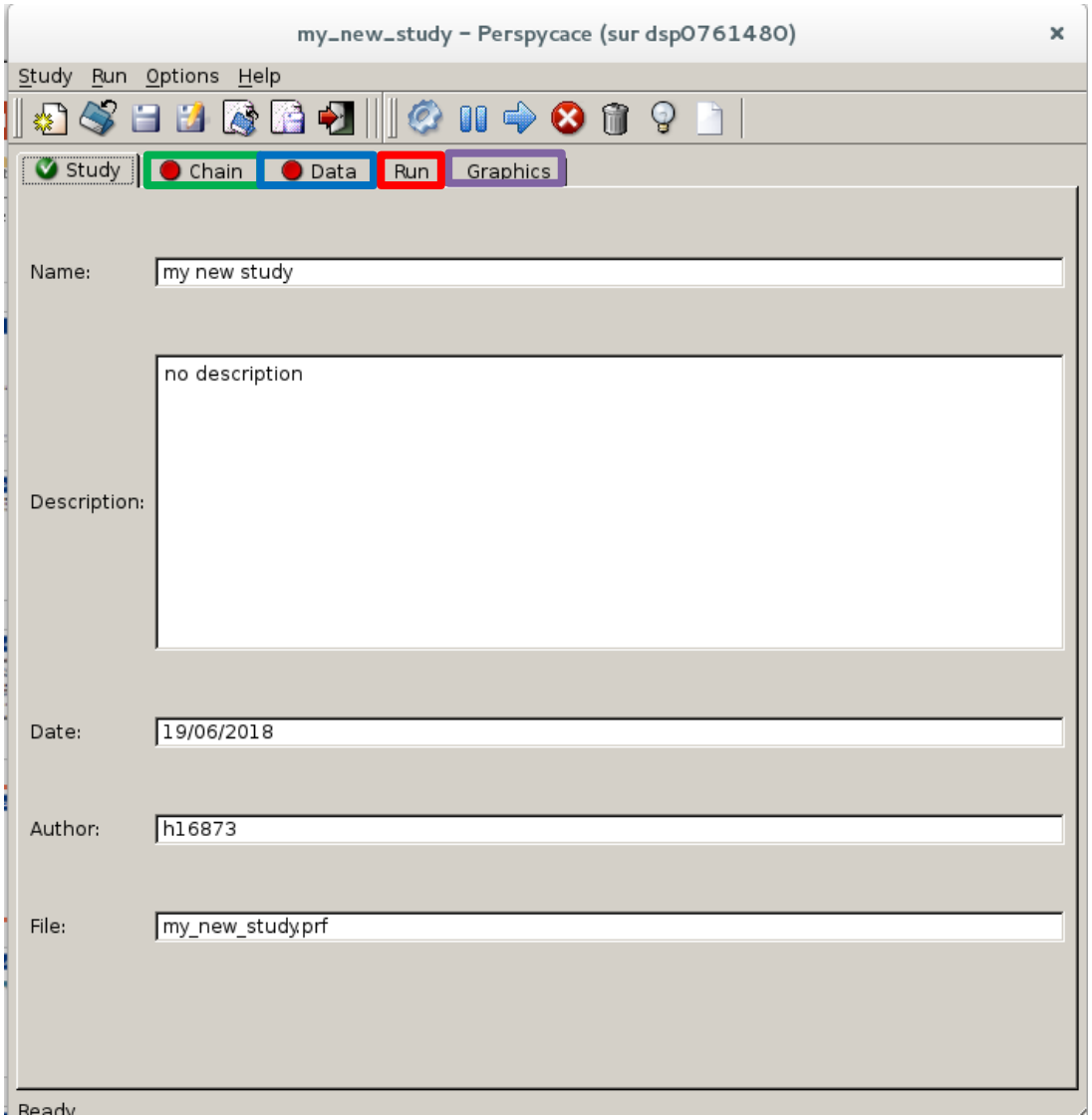
Run the study

Save a Perfect study *prf

Open a Perfect study *prf

Create a new Perfect study *prf

Graphical interface



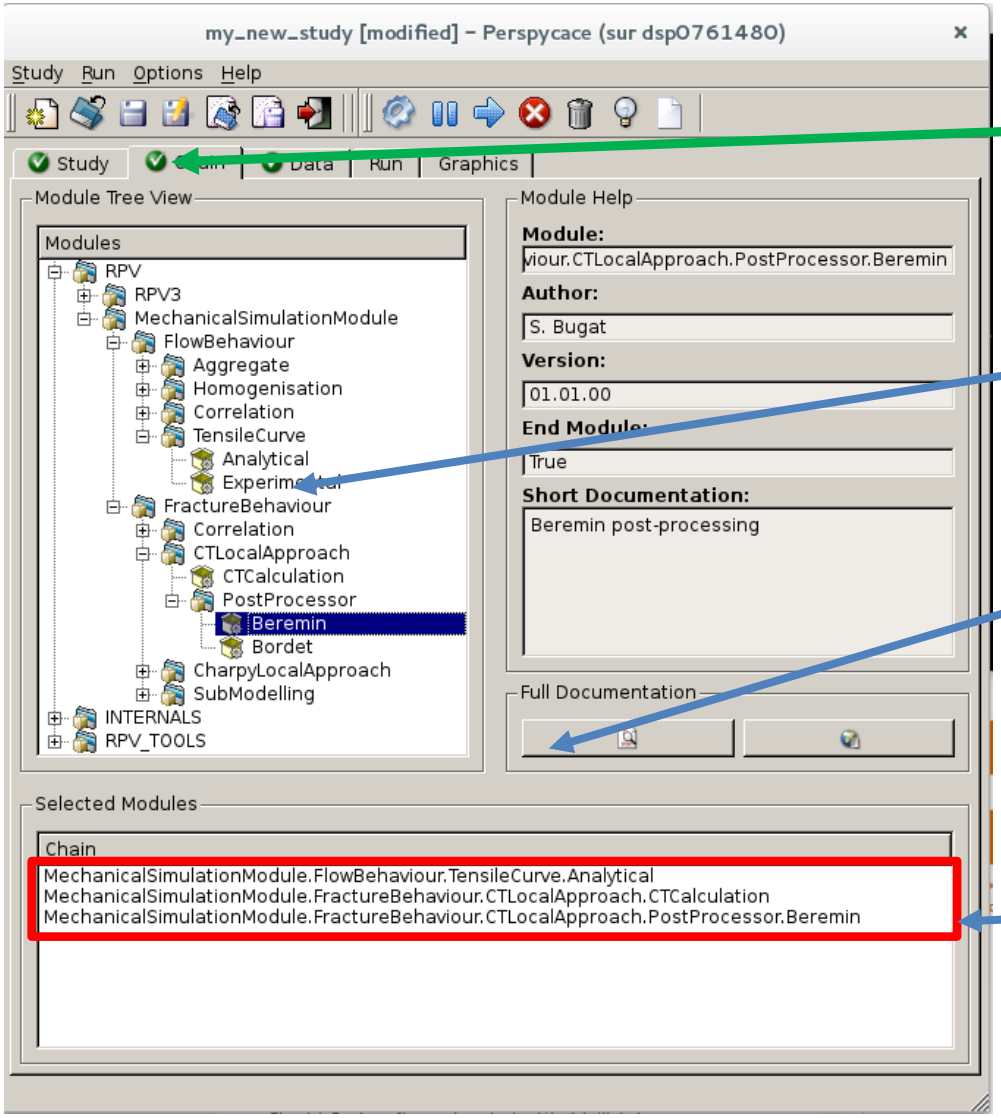
Chain tab: select the different modelling module and submodule and to link them

Data tab: modify the input data

Run tab: display the output of the different codes

Graphics tab: represent the different outcomes of the simulation

How to set up a study



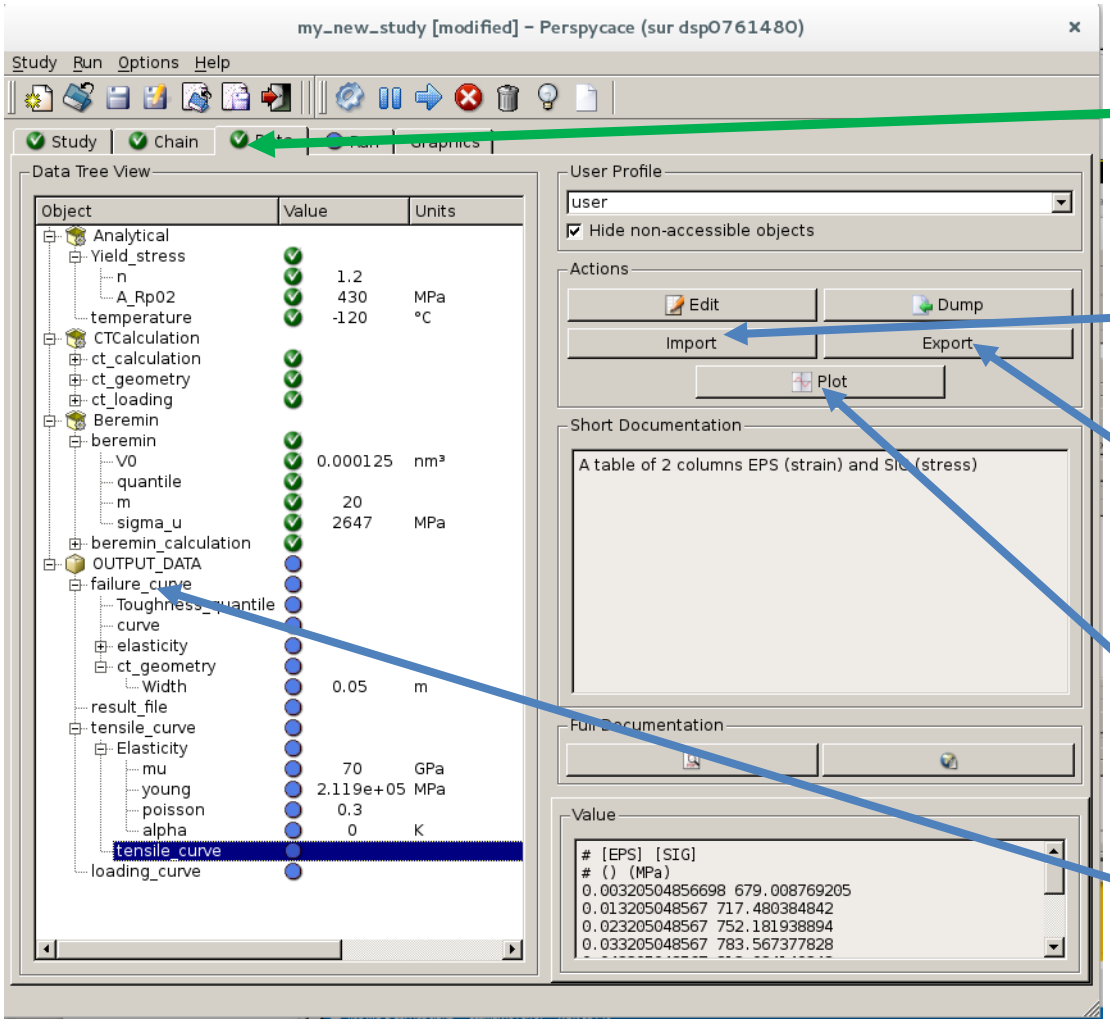
Indicative of the correct settin up of the study

Double click on the module to load it on the chain

For each submodule, documentation is available

The chaining of the submodules must be done in the proper order

The data section: input and output



Indicative of the correct setting of the data

Data can be imported from file

Data can be exported to file

Data can be represented as graphics quickly

Ouput section: list of the output data of the modelling